

**CDI Electronics®****Mercury****1970-1975 Four Cylinder Engines (With 333-3213 Switch Box)  
(With Ignition Driver Distributors)**

**WARNING!! DO NOT CONNECT 12VDC TO THE IGNITION MODULE AS DC VOLTAGE WILL SEVERELY DAMAGE THE SWITCH BOX AND IGNITION DRIVER.**

**NO SPARK ON ANY CYLINDER:**

1. Disconnect the Orange (or Blue) stop wire AT THE SWITCH BOX and retest. If the engine's ignition now has spark, the stop circuit has a fault. Check the key switch, harness and shift switch.
2. Check the cranking RPM. A cranking speed of less than 250-RPM will not allow the system to spark properly. This can be caused by a weak battery, dragging starter, bad battery cables or a mechanical problem inside the engine.
3. Check the Ignition Driver resistance and DVA output:

WIRE	READ TO	FUNCTION	RESISTANCE	DVA (Connected)
Red	White wire	Cranking Winding	400 ohms	180-400 V
Blue	White wire	High Speed Winding	10 Ohms	25-100 V
Green	Engine GND	Pack output	N/A	150 V +
White	Common for Ignition Driver (DOES NOT CONNECT TO ENGINE GND)			

4. Check the Ignition pack resistance:

RED METER LEAD	BLACK METER LEAD	READING
Red Terminal	Pack Case Ground	Diode
Pack Case Ground	Red Terminal	Open
Blue Terminal	Pack Case Ground	Diode
Pack Case Ground	Blue Terminal	Open
White Terminal	Pack Case Ground	Diode
Pack Case Ground	White Terminal	Open
Green	Engine Ground	Open
Pack Case Ground	Green Terminal	Diode

**NO SPARK ON ONE OR MORE CYLINDERS:**

If only one or two cylinders are not firing on this system, the problem will be either in the distributor cap or spark plug wires.

